88888888888 888888888888 888888888888	В	AAAAAAA AAAAAAA AAAAAAA	4	\$	RRRR	RRRRRRR RRRRRRR RRRRRRRR		
888	BBB	ÄÄÄ	AAA	\$\$\$ \$\$\$	RRR	RRR RRR		LLL
888	888	AAA	AAA	SSS	RRR	RRR	ΪΪΪ	
888	888	ÄÄÄ	AAA	SSS	RRR	RRR	İİİ	
BB <b>B</b>	BBB	AAA	AAA	ŠŠŠ	RRR	RRR	ήήή	LLL
888	BBB	AAA	AAA	SSS	RRR	RRR	ŤŤŤ	iii
8888888888	В	AAA	AAA	SSSSSSSS		RRRRRRR	ŤŤŤ	ili
8888888888		AAA	AAA	ŠŠŠŠŠŠŠŠŠ		RRRRRRR	ŤŤŤ	iii
8888888888		AAA	AAA	SSSSSSSS		RRRRRRR	TTT	ΙΙΙ
BBB	888			\$\$\$	RRR	RRR	TTT	LLL
888	888	*********		ŞŞŞ	RRR	RRR	ŢŢŢ	LLL
888	BBB			SSS	RRR	RRR	ŢŢŢ	LLL
88 <b>8</b>	BBB	AAA	AAA	SSS	RRR	RRR	III	řřř
888	888	AAA	AAA	SSS	RRR	RRR	ŢŢŢ	iřř
888	BBB	AAA	AAA	222	RRR	RRR	ŢŢŢ	LLL
88888888888888888888888888888888888888		AAA	AAA	\$\$\$\$\$\$\$\$\$\$\$\$\$	RRR	RRR	ŢŢŢ	rrrrrrrrrrr
BBBBBBBBBBB		AAA	AAA	\$\$\$\$\$\$\$\$\$\$\$\$\$	RRR	RRR	<b>!!!</b>	
00000000000	D	AAA	AAA	SSSSSSSSSS	RRR	RRR	TTT	

88888888 88 88 88 88 88 88 88 88 88 88 88888888	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	\$	MM MM MM MMM MMMM MMMM MM MM MM MM MM MM	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
		\$						

BASSMAT\_REDIM Table of contents Redimension a BASIC-PLUS-2 array

15-SEP-1984 23:50:44 VAX/VMS Macro V04-00

Page

(2) 48 DECLARATIONS (3) 99 BAS\$MAT\_REDIM - Redimension a BASIC array

Ĺ

```
15-SEP-1984 23:50:44 VAX/VMS Macro V04-00 6-SEP-1984 10:30:46 [BASRTL.SRC]BASMATRED
: Redimension a BASIC-PLUS-2 array
                                                                                [BASRTL.SRC]BASMATRED.MAR: 1
                              .TITLE BAS$MAT_REDIM .IDENT /1-002/
                                                                          Redimension a BASIC-PLUS-2 array
      0000
                                                             : File: BASMATRED.MAR Edit:RNH1002
      0000
      0000
      0000
      0000
                         COPYRIGHT (c) 1978, 1980, 1982, 1984 BY DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
      0000
      0000
                         ALL RIGHTS RESERVED.
      0000
      0000
                         THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
      0000
                11
      0000
      0000
      0000
                15 :*
      0000
                         OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
      0000
                         TRANSFERRED.
                16
                17
      0000
      0000
                18 :*
                         THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
                19 ; *
                         AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
      0000
                20
21
                         CORPORATION.
      0000
      0000
                         DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
      0000
      0000
                         SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
      0000
      0000
      0000
      0000
      0000
      0000
      0000
                    : FACILITY: BASIC code support
      0000
                32
33
      0000
                      ABSTRACT:
      0000
                34
35
      0000
                              This module is the routine to redimension BASIC arrays. It is
      0000
                              called from both the RTL and code generated by the compiler.
      0000
                      ENVIRONMENT: User Mode, AST Reentrant
      0000
      0000
      0000
                39
      0000
                40
                      AUTHOR: R. WILL, CREATION DATE: 17-Apr-79
      0000
                42
      0000
                      MODIFIED BY:
```

46 : 1-002 - Changed shared external references to G^ RNH 25-Sep-81

(1)

I 16

0-001 - Original

```
15-SEP-1984 23:50:44
6-SEP-1984 10:30:46
  Redimension a BASIC-PLUS-2 array
                                                                         VAX/VMS Macro V04-00
DECLARATIONS
                                                                         [BASRTL.SRC]BASMATRED.MAR; 1
     0000
               48
                            .SBTTL DECLARATIONS
               30
51
53
53
      0000
                    INCLUDE FILES:
      0000
                           $DSCDEF
                                                                          : Define descriptor offsets
               55
56
57
58
59
      0000
                    EXTERNAL DECLARATIONS:
      0000
      0000
                            .DSABL GBL
                                                                            Prevent undeclared
      0000
                                                                           : symbols from being
               60
      0000
                                                                          ; automatically global.
              61
62
63
64
65
66
67
      0000
                            .EXTRN BAS$$STOP
                                                                          : Routine to signal errors
      0000
      0000
      0000
                           The following are error messages that may be signalled
      0000
      0000
                            .EXTRN BASSK_CANCHAARR
                                                                   Cannot Change Array Dimensions
                                                                   DSC$V_FL_REDIM is not set or DSC$V_FL_BOUNDS is not set Matrix Dimension Error
      0000
               0000
                            .EXTRN BAS$K_MATDIMERR
                                                                   Number of input parameters differs
                                                                    from number of dimensions in array
                                                                   Redimensioned Array
                            .EXTRN BAS$K_REDARR
                                                                   Not enough space allocated for input
                                                                    dimension parameters
                                                                   Subscript Out Of Range
                            .EXTRN BAS$K_SUBOUTRAN
                                                                   One of the new bounds specified was
                                                                   negative or zero
               80
                    MACROS:
      0000
      0000
      0000
                    EQUATED SYMBOLS:
      0000
      0000
      ŎŎŎŎ
               88
      0000
               89
                    OWN STORAGE:
     0000
               90
     0000
     0000
      0000
                    PSECT DECLARATIONS:
               94
95
      0000
                            .PSECT _BAS$CODE PIC, USR, CON, REL, LCL, SHR, - EXE, RD, NOWRT, LONG
 0000000
      0000
```

J 16

0000

```
; Redimension a BASIC-PLUS-2 array 15-SEP-1984 23:50:44 VAX/VMS Macro VO4-00 BAS$MAT_REDIM - Redimension a BASIC arr 6-SEP-1984 10:30:46 [BASRTL.SRC]BASMATRED.MAR;1
                                                                                                                  (3)
                                .SBTTL BAS$MAT_REDIM - Redimension a BASIC array
                   100 ;++
           0000
           0000
                   101
                       ; FUNCTIONAL DESCRIPTION:
                   102
           0000
           0000
                                This routine redimensions arrays for BASIC-PLUS-2. It first checks to
           0000
                   104
                                see if the array is currently the size that the call is requesting
           0000
                   105
                                redimensioning to. If so, the routine will return (so that if DSCSV_FL_REDIM is not set an error will not be signalled). Otherwise
           0000
                   106
           0000
                   107
                                it will signal an error if DSC$V_FL_REDIM is not set, or if
           0000
                   108
                                2 dimensions are input and the matrix currently only has 1 dimension
           0000
                   109
                                or only 1 dimension is input and the matrix currently has 2 dimensions
           0000
                   110
                                or if the input dimensions require more space than originally
           0000
                                allocated to the array (DSC$L_ARSIZE). If there are no errors, then
                   111
                                the routine will write either 1 or 2 upper bounds and the same
           0000
                   112
           0000
                   113
                                number of multipliers, and set to 0 the same number of lower bounds.
           0000
                   114
                                DSC$A_AO will be set to DSC$A_POINTER. Also
           0000
                                note that total array size will always remain the initial allocated
                   115
           0000
                   116
                                length. Integer overflow is disabled so that a BASIC-PLUS-2 error
           0000
                   117
                                can be signalled if the space needed is too large instead of getting
           0000
                   118
                                a hardware error.
           0000
                   119
           0000
                         CALLING SEQUENCE:
           0000
                   121
           0000
                                CALL BAS$MAT_REDIM (matrix.wx.da, rows.rl.v [, cols.rl.v])
           0000
           0000
                         INPUT PARAMETERS:
                  125
           0000
8000000
                  126
           0000
                                row upr bnd = 8
0000000
                   127
           0000
                                col_upr_bnd = 12
           0000
                   128
                   129
           0000
                         IMPLICIT INPUTS:
                   130
           0000
           0000
                   131
                                NONE
           0000
                         OUTPUT PARAMETERS:
           0000
                  134
135
           0000
00000004
           0000
                                matrix = 4
           0000
                   136
                   137
           0000
                         IMPLICIT OUTPUTS:
           0000
                  138
                  139
           0000
                                NONE
           0000
                   140
           0000
                   141
                         FUNCTION VALUE:
                   142
           0000
                         COMPLETION CODES:
           0000
           0000
                   144
                                NONE
           0000
                   145
                         SIDE EFFECTS:
           0000
           0000
                   147
                   148
           0000
                                Errors list under externals may be signalled. The matrix parameter
                   149
           0000
                                may have different dimensions after routine execution.
                   150 :
           0000
                   151 :--
           0000
                  152
153
           0000
    001C
           0000
                                .ENTRY BAS$MAT_REDIM , ^M<R2,R3,R4>
           0002
                   154
                                                                              Routine to redimension array
           0002
                                                                             ; according to BASIC-PLUS-2
```

K 16

```
; Redimension a BASIC-PLUS-2 array 15-SEP-1984 23:50:44 VAX/VMS Macro VC4-00 BAS$MAT_REDIM - Redimension a BASIC arr 6-SEP-1984 10:30:46 [BASRTL.SRC]BASMATRED.MAR;1
                                                                                                                                      (3)
                                   156
157
158
159
                                                                                                ; syntax
                                         Register usage
                                                RO, R1 computation temps
R2 pointer to output
R3 upper bound for s
                                   160
                                   161
                                                          pointer to output matrix descriptor
                                   162 :
163 :
                                                          upper bound for subscript 1 (rows)
                                                 R4
                                                          upper bound for subscript 2 (columns)
                                   164 :-
                                   165
      52
            04 AC
                     DO
                                   166
                                                 MOVL
                                                          matrix(AP), R2
                                                                                               : pointer to array descriptor
                                   167
                                   168 :+
                                   169; First check to see if the bounds are set in the array descriptor
                                   170; if they are not, we cannot change them. \is this really an error\
                                   171 ;-
                                  172
   0B 0A A2
                07
                      E0
                           0006
                                                 BBS
                                                          #DSC$V_FL_BOUNDS, DSC$B_AFLAGS(R2), 1$ ; If bounds are
                           000B
                                   174
                                                                                                  present, go check them
                                                 MOVZBL #BAS$K_CANCHAARR, -(SP) CALLS #1, G^BAS$$STOP
                                   175
                                                                                                  Bounds are not present
            00'8F
                           000B
0000000°GF
                01
                      FB
                           000F
                                   176
                                                                                                : signal redimension error
                           0016
                                   177
                           0016
                                   178 :+
                           0016
                                   179; Bounds are present. Take execution path depending on number
                                   180 : of dimensions.
                                   181 ;-
                           0016
                                   182
                           0016
                                   183 15:
          02
                6C
69
                                                 CMPB
                                                           (AP), #2
                                                                                                ; find # of bounds input
                      1F
                           0019
                                                          RETURN
                                   184
                                                 BLSSU
                                                                                                  no bounds input, so exit
                           001B
                                   185
                                                                                                  \should that be an error\
                           001B
                                   186
                                                                                                : \should I even check for it\
                                   187
                74
                           001B
                      1A
                                                 BGTRU
                                                          TWO_DIMS
                                                                                                ; go do more than 1 bound
```

001D

188

BASSMAT_REDIM		: Redimension BAS\$MAT_REDIM	M 16 a BASIC-PLUS-2 array 15-SEP-1984 23:50:44 VAX/VMS Macro VO4-00 Page 5 - Redimension a BASIC arr 6-SEP-1984 10:30:46 [BASRTL.SRC]BASMATRED.MAR;1 (3)
		001D 19 001D 19 001D 19 001D 19	0 ;+ 1 : One dimension was input. 2 :-
		001D 19 001D 19 001D 19 001D 19 001D 19 001D 19	; + ; Put new bound into R3. If it is negative or zero signal an error ; -
	53 08 A	.C	B MOVL row_upr_bnd(AP), R3 ; get the new bound 9 BLEQ ERR4 ; error
		0023 20 0023 20 0023 20	1 ;+ 2 ; Check to see if array is one dimensional. If not signal an error. 3 ;-
	01 OB A	0023 20 0023 20 0023 20 0023 20 0023 20 2 91 0023 20 F 12 0027 20 0029 20 0029 20	CMPB DSC\$B_DIMCT(R2),#1 ; One dimensional array? BNEQU ERR1 ; No, go signal error
		0029 200 0029 200 0029 210 0029 21	9 ; Check to see if the new bound is the same as the old bound.
	08 AC 1C A	2 91 0023 200 F 12 0027 200 0029 200 0029 200 0029 200 0029 210 0029 210 0029 210 4 13 002E 210 0030 210 0030 210	CMPL DSC\$L_M1+8(R2), row_upr_bnd(AP); Yes, compare bounds BEQL RETURN ; Array is already desired ; size, so return
		0030 210 0030 210 0030 220	B : See if array is redimensionable. If not, signal an error. Note that
	39 0A A2 0	0030 223 4 E1 0030 223 0035 224 0035 226 0035 226	BBC #DSC\$V_FL_REDIM, DSC\$B_AFLAGS(R2), ERR3; if can't redimension; array, go signal an error
		0035 221	B; than is currently allocated to the array signal an error.
	51 01 08 A	0035 23 2 3C 0035 23 C C1 0038 23 0030 23 0030 23	)   MOVZWL DSC\$W_LENGTH(R2), R0 ; make item length a longword   ADDL3 row_upr_bnd(AP), #1, R1 ; Add 1 to upper bound since   BASIC-PLUS-2 ARRAYS have 0
	51 5 0C A2 5	0035 229 0035 239 2 30 0035 239 0 01 003B 239 003D 239 003D 239 0 01 0040 239 1 10 0040 239 1 10 0046 239 1 0048 239 0048 249	for a lower bound  MULL2 RO, R1; find space need w/ new bound  BVS ERR2; not enuf space, go signal  CMPL R1, DSC\$L_ARSIZE(R2); see if too much space needed  BGTR ERR2; too much space, go signal  CHPL R1, DSC\$L_ARSIZE(R2); too much space, go signal
		0048 24 0048 24 0048 24	1 :+
	1C A2 08 A	0048 244 C DO 0048 244 2 D4 004D 246	MOVL row upr bnd(AP), DSC\$L M1+8(R2) ; write new upper bound

M	; Re	edimensi BMAT_RED	on a	BASIC-PI - Redime	LUS-2 ar	C 1 ray 15-SEP-1984 23:50:44 BASIC arr 6-SEP-1984 10:30:46	VAX/VMS Macro VO4-00 Page (3 [BASRTL.SRC]BASMATRED.MAR;1 (3	7 3)
		0058 0058 0058 0058 0058 0050	255 256 257 258	-	l errors			
7E 00'8F 00000000'GF 01	9A FB	0058 0050	259	ERR1: ERR2: ERR3: ERR4:	MOVZBL CALLS	#BAS\$K_MATDIMERR, -(SP) #1, G^BAS\$\$STOP	<pre>; Matrix Dimension Error ; Signal the error</pre>	
7E 00'8F 00000000'GF 01	9A FB	0067	262	ERR2:	MOVZBL CALLS	#BAS\$K_REDARR, -(SP) #1, G^BAS\$\$STOP	<pre>; Redimensioned Array ; Signal the error</pre>	
7E 00'8F 00000000'GF 01	9A FB	006E 006E 0072 0079	265 266	ERR3:	MOVZBL CALLS	#BAS\$K_CANCHAARR, -(SP) #1, G^BAS\$\$STOP	; Can't Change Array Dimension	
7E 00'8F 00000000'GF 01	9A FB	0079 007D	268 269	ERR4:	MOVZBL CALLS	#BAS\$K_SUBOUTRAN, -(SP) #1, G^BAS\$\$STOP	; Subscript out of range	
	04	0084 0084 0085	270 271 272	RETURN:	RET		; and exit	

				; Re	D 1 imension a BASIC-FLUS-2 array 15-SEP-1984 23:50:44 VAX/VMS Macro VO4-00 Page AT_REDIM - Redimension a BASIC arr 6-SEP-1984 10:30:46 [BASRTL.SRC]BASMATRED.MAR;1	8 (3)
					0085 274 :+ 0085 275 : Two dimensions were input. 0085 276 :- 0085 277	
					1085 278 ;+ 1085 279 : Put the 2 new upper bounds into registers. If either is negative or 0	
	53		AC EE	D0 15	0085	
	54	00	AC E8	D0 15	0091 287	
					JUYI 289; theck to see it array is two dimensional. It not signal an error.	
	02	0B	A2 C1	91 12	0091 291 * 0091 292 TWO_DIMS: 0091 293	
					1097 297; theck to see if the new bounds are the same as the old bounds. 1097 298; If so return. 1097 299;— 1097 300	
08 00		20 28	A2 07 A2 DF	D1 12 D1 13	0097 301 CMPL DSC\$L_M2+8(R2), row_upr_bnd(AP); Yes, compare number of rows 0090 302 BNEQ 25\$; Not =, continue redimension 009E 303 CMPL DSC\$L_M2+16(R2), col_upr_bnd(AP); compare number of columns 00A3 304 BEQL RETURN; Array is already desired 00A5 305; size, so return	
					00A5 307;+ 00A5 308; See if array is redimensionable. If not, signal an error. Note that 00A5 309; we must check for correct size before redimensionability so that we 00A5 310; won't give the 'can't redimension' error when array is correct size.	
(4	0A	<b>A2</b>	04	E1	00AS 312 ' 00AS 313 25\$: BBC #DSC\$V_FL_REDIM, DSC\$B_AFLAGS(R2), ERR3 ; if can't redimension 00AA 314 ; array, go signal an error 00AA 315	
					004A 316;+ 00AA 317; Compute array size needed for new bounds. If more space is needed 00AA 318; than is currently allocated to the array signal an error. 00AA 319;-	
51	01	50 08	<b>AC</b>	3C C1	00AA 320 00AA 321 MOVZWL DSC\$W_LENGTH(R2), R0 ; make item length a longword 00AD 322 ADDL3 row_upr_bnd(AP), #1, R1 ; Add 1 to upper bound since 00B2 323 ; BASIC-PLUS-2 arrays have 0 00B2 324 ; for a lower bound for rows	
50	01	51 OC	AF 50 AA AC	1D C4 1D C1	OOAA 320 OOAA 321 MOVZWL DSC\$W_LENGTH(R2), R0 OOAD 322 ADDL3 row_upr_bnd(AP), #1, R1 OOB2 323 OOB2 324 OOB2 325 OOB2 325 OOB2 326 OOB2 327 OOB3 327 OOB3 327 OOB9 328 ADDL3 col_upr_bnd(AP), #1, R0 OOBE 329 OOBE 330  ### Wovzwl DSC\$W_LENGTH(R2), R0 ### wake item length a longword ### Add 1 to upper bound since ### colours in the colour part of the colour	

IM	: Redimension BAS\$MAT_REDIM	n a BASIC-PLUS-2 ar M - Redimension a (	ray 15-SEP-1984 23:50:44 BASIC arr 6-SEP-1984 10:30:46	VAX/VMS Macro V04-00 Page 9 [BASRTL.SRC]BASMATRED.MAR;1 (3)
51 50 9E 0C A2 51 98	1D 00BE C4 00C0 1D 00C3 D1 00C5 14 00C9 00CB	331 BVS 332 MULL2 333 BVS CMPL 335 BGTR 336;\what is suppor	ERR2 RO, R1 ERR2 R1, DSC\$L_ARSIZE(R2) ERR2 sed to to unsigned and what is r	; not enuf space, go signal ; find total space needed ; not enuf space, go signal ; see if too much space needed ; too much space, go signal not?\
20 A2 08 AC 14 A2 01 08 AC	00CB 3	340 :-	ve been caught. Now redimension  DSC\$L_M2+4(R2)  row_upr_bnd(AP), DSC\$L_M2+8(R2)  row_upr_bnd(AP), #1, DSC\$L_M1(R	; set lower bound to 0; write new upper bnd for rows (2); compute and write new row; multiplier, assuming that; all B+2 arrays have 0 for L1; set lower bound to 0 (2); write new upper bnd for col (2); compute and write new col
28 A2 0C AC 18 A2 01 0C AC	00F7 3	341 342 343 MOVL 344 345 346 347 CLRL MOVL 349 ADDL 3 350 351 352 353 BRB 354 355	DSC\$L_M2+12(R2) col_upr_bnd(AP), DSC\$L_M2+16(R2 col_upr_bnd(AP), #1, DSC\$L_M2(R	; all B+2 arrays have 0 for L1 ; set lower bound to 0 ?); write new upper bnd for col R2); compute and write new col ; multiplier, assuming that ; all B+2 arrays have 0 for L2
98	00E7 00E7 11 00E7 00E9 00E9	353 BRB 354 355 .END	RETURN	<pre>; and exit ; End of BAS\$MAT_REDIM</pre>

```
15-SEP-1984 23:50:44 VAX/VMS Macro V04-00 [BASRTL.SRC]BASMATRED.MAR;1
                                             : Redimension a BASIC-PLUS-2 array
BASSMAT_REDIM
                                                                                                                                                                                 10
                                                                                                                                                                         Page
Symbol Table
                                                                                                                                                                                  (3)
BAS$$STOP
                                              ******
BASSK_CANCHAARR
BASSK_MATDIMERR
BASSK_REDARR
BASSK_SUBOUTRAN
BASSMAT_REDIM
COL_UPR_BND
DSC$B_AFLAGS
                                                                   ŎŎ
                                                                   ŎŎ
                                                                   ŎŎ
                                              ******
                                              ******
                                                                   00
                                              00000000 RG
                                                                   ŎŽ
                                           = 00000000
                                           = 0000000A
DSCSB_DIMCT
DSCSL_ARSIZE
DSCSL_M1
DSCSL_M2
                                           = 0000000B
                                           = 00000000
                                           = 00000014
                                           = 00000018
DSC$V_FL_BOUNDS
DSC$V_FL_REDIM
                                           = 00000007
                                           = 00000004
DSC SW_LENGTH
                                           = 00000000
                                              0000058 R
ERR1
ERR2
                                              00000063 R
                                                                   02
02
ERR3
                                              0000006E R
                                              00000079 R
ERR4
MATRIX
                                           = 00000004
RETURN
                                              00000084 R
                                                                   02
ROW_UPR_BND
                                           80000000 =
TWO_DIMS
                                                                   02
                                              00000091 R
                                                                     Psect synopsis!
PSECT name
                                             Allocation
                                                                        PSECT No.
                                                                                       Attributes
                                            00000000
    ABS
                                                                        00 (
                                                                                0.)
                                                                                                                                                         NOWRT NOVEC BYTE
                                                                 0.)
                                                                                       NOPIC
                                                                                                  USR
                                                                                                          CON
                                                                                                                   ABS
                                                                                                                           LCL NOSHR NOEXE NORD
SABSS
                                                                 0.)
                                             00000000
                                                                        01
                                                                                       NOPIC
                                                                                                  USR
                                                                                                          CON
                                                                                                                   ABS
                                                                                                                           LCL NOSHR
                                                                                                                                           EXE
                                                                                                                                                   RD
                                                                                                                                                            WRT NOVEC BYTE
                                                                                1.)
 _BAS$CODE
                                                              233.)
                                             00000E9
                                                                        02 (
                                                                                2.)
                                                                                          PIC
                                                                                                  USR
                                                                                                          CON
                                                                                                                   REL
                                                                                                                           LCL
                                                                                                                                   SHR
                                                                                                                                           EXE
                                                                                                                                                   RD
                                                                                                                                                         NOWRT NOVEC LONG
                                                               ! Performance indicators
Phase
                                   Page faults
                                                       CPU Time
                                                                            Elapsed Time
                                                        00:00:00.06
                                                                            00:00:00.24
Initialization
                                             107
                                                        00:00:00.49
                                                                            00:00:02.20
Command processing
                                             137
                                                        00:00:02.05
                                                                            00:00:06.62
Pass 1
                                              73
                                                        00:00:00.17
                                                                            00:00:00.18
Symbol table sort
                                                        00:00:00.84
                                                                            00:00:02.55
Pass 2
                                                        00:00:00.04
                                                                            00:00:00.03
Symbol table output
                                                        00:00:00.03
                                                                            00:00:00.22
Psect synopsis output
                                                        00:00:00.00
                                                                            00:00:00.00
Cross-reference output
Assembler run totals
                                             357
                                                        00:00:03.68
                                                                            00:00:12.05
The working set limit was 1200 pages.
10708 bytes (21 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 146 non-local and 2 local symbols.
355 source lines were read in Pass 1, producing 13 object records in Pass 2.
8 pages of virtual memory were used to define 7 macros.
```

BASSMAT REDIM
VAX-11 Macro Run Statistics

: Redimension a BASIC-PLUS-2 array

15-SEP-1984 23:50:44 VAX/VMS Macro V04-00 [BASRTL.SRC]BASMATRED.MAR;1 Page 11 (3)

Macro library statistics !

Macro library name

Macros defined

\_\$255\$DUA28:[SYSLIB]STARLET.MLB;2

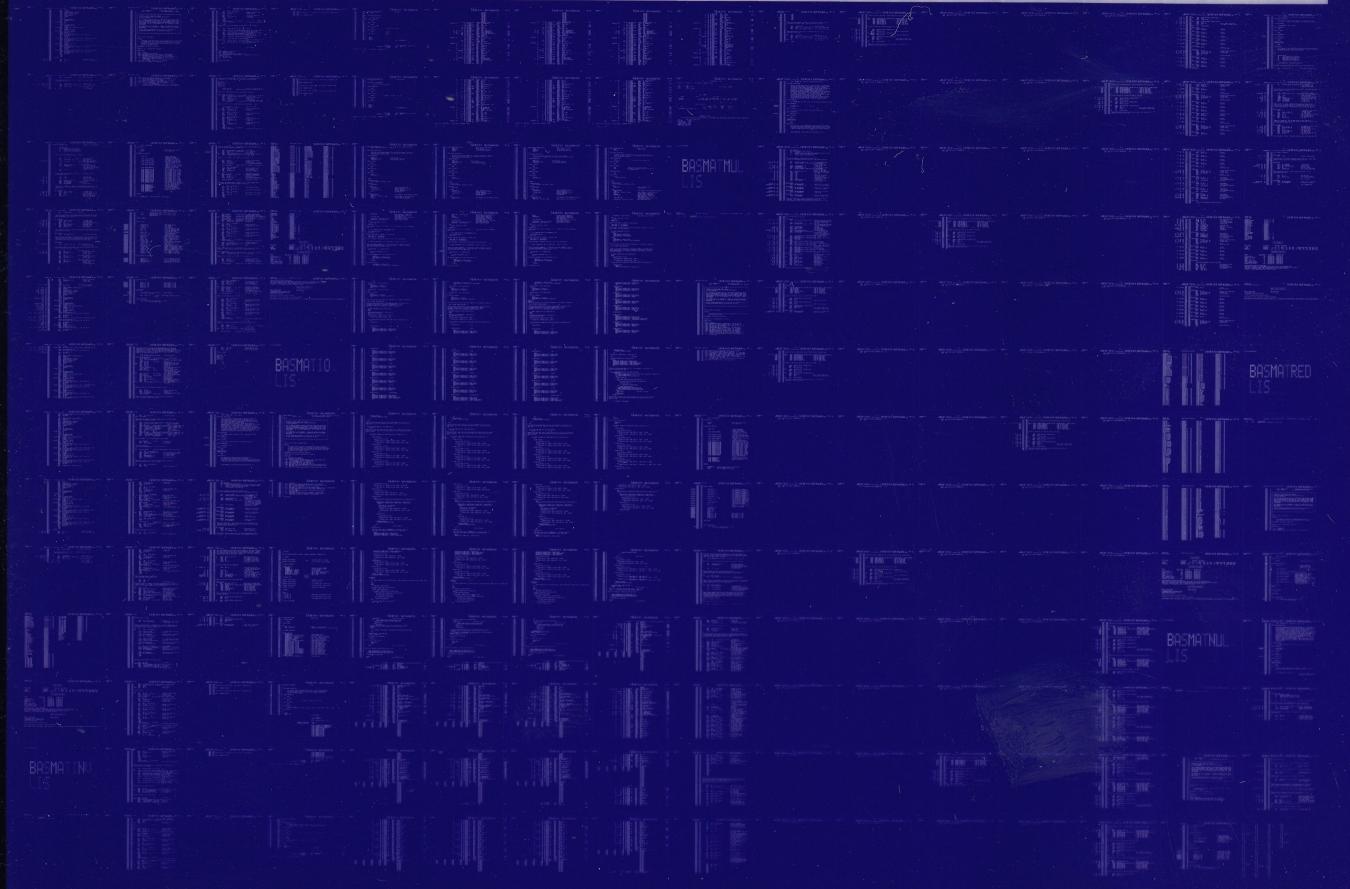
190 GETS were required to define 4 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL, TRACEBACK)/LIS=LIS\$:BASMATRED/OBJ=OBJ\$:BASMATRED MSRC\$:BASMATRED/UPDATE=(ENH\$:BASMATRED)

0026 AH-BT13A-SE

DIGITAL EQUIPMENT CORPORATION CONFIDENTIAL AND PROPRIETARY



0027 AH-BT13A-SE VA.O

## DIGITAL EQUIPMENT CORPORATION CONFIDENTIAL AND PROPRIETARY

